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In accordance with the invention in U.S. Patent Application No. 09/827,267 (filed on April 5, 2001), the terminal-to-terminal communication connection control method applicable to IP transfer networks may be realized, while combining several functions with each other, or changing some functions, which are disclosed in Japanese Patent Application No.128956/1999 filed by the Applicant, the line(circuit) connecting method of the No.7-common line signal system, "JT-H323 gateway standardized by ITU-T recommendation H323 ANNEX D", "SIP telephone protocol", and the embodiment-36 of Japanese Patent No.3084681-B2. Furthermore, while a media router, a gateway, and an IP network service operation/management server are conducted, the arrangements and the operation sequences of the media router and the gateway are concretely defined; modes of IP packets used in terminal-to-terminal communications with employment of the media router and the gateway are concretely defined; and also the functions which should be owned by the IP network service operation/management servers are concretely defined.

In accordance with Japanese Patent Application No. 128956/1999, the integrated IP transfer network contains a plurality of IP transfer networks. In other words, the integrated IP transfer network contains at least two, or more networks of the IP data network, the IP telephone network, the IP voice/image network (IP audio/visual network), the best effort network, the IP data multicast network, the IP base TV broadcast network, and the network node apparatus. The

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network node apparatus is connected via the communication line to any one, or more of the IP transfer networks. On the other hand, the network node apparatus terminal of the network node apparatus is connected via the communication line to the terminal externally provided with the integrated IP transfer network.